

Priority for EOS Validation Core Site Data (Low, Medium, or High)

Based on survey comments received as of April 26, 1999 from:

Privette, MODLAND (21% High, 64% ranked);

Cahoon, CERES (49% High, 100% ranked);

Pinker, CERES (15% High, 23% ranked); and

Running, MODLAND (57% High, 95% ranked).

Parameter	Priority	Comments
<i>Background</i>		
Site ID	H-H	
Site Name	H-H	
Start of Project	H-H	
Investigator contact information	H-H	
Pointers to site Web pages, etc.	H-H	
General site description (1-3 paragraphs)	H-H	
Latitude	H-H-H	
Longitude	H-H-H	
Elevation	M-M-M	
Country	M-M	
Corners of NPP/LAI/fPAR cell (5x5 km)	L-H-H	
Corners of 2x2 degree cell	L-L-H	
<i>Background maps/GIS coverages</i>		
Land cover	H-H-H	
Digital elevation model (DEM)	H-H-H	
Soil Map	M-M-M	
IGBP Land Cover	H-H-H-H	
Umd Land Cover	L-H-H	
Terrain Fetch area/direction	L-H	
Soil Type	M-M	

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<i>Meteorology /atmosphere data - daily /monthly / annual</i>		
Maximum temperature	L-M-M-H	
Minimum temperature	L-M-H-H	
Precipitation	L-M-H-H	
Vapor pressure deficit	L-M-M-H	
Relative humidity	L-L-H	
Shortwave radiation	L-H-H-H	
Wet or dry status	L-L-L-H	
Modeled evapotranspiration	L-M-H	
Water budget - stream flow	L-L-H	
Water holding capacity (soil)	L-L-H	
<i>Tower sensors</i>		
BRDFs	M-H	
Surface multispectral reflectance	H-H-H-H	
Albedo	H-H-H-H	
Vegetation Indexes	L-L-M-H	
Aerosol optical depth, aerosol size distribution and phase function	L -H-H-H	
Total preceitable water	L-M-H-H	
Ozone - total	L-M-M-H	
<i>Aircraft imagery</i>		
Surface reflectance	H-H-H-H	
Albedo	H-H-H-H	
Digital camera	L-L-H	
<i>Satellite Products</i>		
ETM - 4 cloud free scenes/year	H-H	
AVHRR - 1 cloud-free scene/month	H-H	
MODIS - (2x2 degree)	H-H	
MISR - (2x2 degree)	H-H	
ASTER - 4 cloud-free/year (2x2 degree)	H-H	
CERES subsets	H-H	
MOPITT subsets	L-L	
SeaWiFS	L-L	

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<i>Vegetation</i>		
Functional Group/Vegetation Type	L-L-H	
Dominant Species	L-M-H	
Season LAI/fPAR	M-H	
Canopy multispectral reflectance (nadir or bidirectional)	M-H-H	
Leaf spectra (reflectance and transmittance) - by species	L-M-H	
Background soil and litter spectral reflectance (nadir)	L-M-H	
Fraction of areal vegetation cover - by species or vegetation type	H-H-H	
Fraction of non-photosynthesizing vegetation (at min. photosynthetic activity)	M-H-H	
Vegetation crown allometry (height, width, gaps)	M-H-H	
Average DBH	L-M-H	
Canopy Height	M-H-H	
Density	M-H-H	
Basal Area	L-H-H	
Stand Age	L-H-H	
Plant area index	L-H-H	
Leaf area index	H-H-H	
Specific leaf area	L-L-H	
Phenology - start, stop dates	L-M-H	
NPP - wood	L-H	
NPP - foliage	L-H	
NPP - understory	L-H	
NPP - coarse roots	L-L	
NPP - fine roots	L-L	
Foliage Nitrogen	L-L-H	
NDVI	L-L-M-H	
Fire scars	L-H-H	

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<i>FLUXNET Summary (monthly/annual) data</i>		
Photosynthetic Active Radiation	L-H-H	
Air temperature	L-L-H	
Precipitation	L-L-H	
Relative humidity	L-L-H	
Wind speed and direction above canopy	L-L-H	
Barometric pressure	L-L-L-H	
Soil temperature	L-L-H	
Soil water content	L-L-L	
Carbon dioxide concentration	L-L-L	
Net Ecosystem Exchange-eddy correlation	L-L-H	
Sensible heat from eddy correlation-	L-L-L	
Latent heat from eddy correlation	L-L-L	
Net radiation-	L-H-H-H	
Global radiation	L-H-H	
Soil heat flux	L-L-L	
Annual Net Ecosystem Carbon Exchange	L-M	
Annual Summed Day-time CO ₂ Flux	L-L-L	
Annual Summed Night-time CO ₂	L-L-L	
Annual Summed Respiration CO ₂ Flux	L-L-L	
Surface Emissivity	M-M-H-H	